

REMARKS

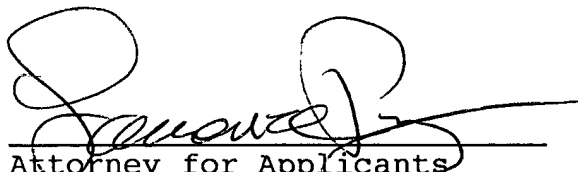
In the Office Action, the Examiner kindly pointed out that the Computer Readable Form ("CRF") of record is formatted improperly. Accordingly, enclosed is a corrected CRF which is believed to address the deficiencies noted in the Office Action. Of course, the data found within the corrected CRF is identical to that which was filed originally.

Additionally, Applicants have amended their specification by directing the entry of the attached paper copy of the corrected Sequence Listing. In conformity with 37 C.F.R. §1.825(a), support for the amendment is found in the specification as filed and the amendment includes no new matter. Finally, in conformity with 37 C.F.R. §1.825(b), the copy of the Sequence Listing in the corrected CRF is the same as the attached Paper Copy.

Although no charges should be necessary in connection with this paper, any required fees may be charged to Deposit Account No. 06-1205.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our below listed address.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Lawrence S. Perry", is written over a horizontal line.

Attorney for Applicants
Lawrence S. Perry
Registration No. 31,865

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200

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#8/1B

#8/1B

(1) GENERAL INFORMATION

- (i) APPLICANT: Koizumi, Satoshi
(i) APPLICANT: Sasaki, Katsutoshi
(i) APPLICANT: Endo, Tetsuo
(i) APPLICANT: Tabata, Kazuhiko
(i) APPLICANT: Ozaki, Akio

(ii) TITLE OF INVENTION: Processes for Producing Sugar Nucleotides

and Complex Carbohydrates

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Fitzpatrick, Cella, Harper & Scinto
(B) STREET: 30 Rockefeller Plaza
(C) CITY: New York
(D) STATE: New York
(E) COUNTRY: USA
(F) ZIP: 10112-3801

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
(B) COMPUTER: pc
(C) OPERATING SYSTEM: MS-DOS
(D) SOFTWARE:

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: 09/068,528
(B) FILING DATE: 13-MAY-1998
(C) CLASSIFICATION: 536/

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Perry, Lawrence S.
(B) REGISTRATION NUMBER: 31865
(C) REFERENCE/DOCKET NUMBER: 766.20

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (212) 218-2100
(B) TELEFAX: (212) 218-2200

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 31 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGAGAAAGCT TATGGCTGCC ATTAATACGA A

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(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single

(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:2:
AACACGGATC CGGATGTTAC TTCTTAATGC 30

(2)INFORMATION FOR SEQ ID NO:3:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 28 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:3:
ATGGAGGATC CTGCTCTGTA TACCGTCT 28

(2)INFORMATION FOR SEQ ID NO:4:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 20 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:4:
TGCTGGTCGA CCTGCGCTTG 20

(2)INFORMATION FOR SEQ ID NO:5:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 31 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:5:
AAGGAAAGCT TATGACGCAA TTTAATCCCG T 31

(2)INFORMATION FOR SEQ ID NO:6:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 20 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:6:
GCAAAGTTAA CAGTCGGTAC 20

(2)INFORMATION FOR SEQ ID NO:7:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 31 base pairs

(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:7:
TCAGGAAGCT TATGTTGAAT AATGCTATGA G 31

(2) INFORMATION FOR SEQ ID NO:8:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 27 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:8:
TCTCCGGATC CCATGTGACC GGGTTAG 27

(2) INFORMATION FOR SEQ ID NO:9:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 28 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:9:
TCTAAATCGA TGCAGACAAA GGACAAAG 28

(2) INFORMATION FOR SEQ ID NO:10:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 27 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:10:
TTGCAGGATC CTCGTAGGCC TGATAAG 27

(2) INFORMATION FOR SEQ ID NO:11:
(i)SEQUENCE CHARACTERISTICS:
(A)LENGTH: 20 base pairs
(B)TYPE: nucleic acid
(C)STRANDEDNESS: single
(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:11:
TGATATCCGC TCCCTTTCCG 20

(2) INFORMATION FOR SEQ ID NO:12:

(i)SEQUENCE CHARACTERISTICS:
 (A)LENGTH: 26 base pairs
 (B)TYPE: nucleic acid
 (C)STRANDEDNESS: single
 (D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:12:
ACAGCGGATC CGATGTGTTC GCTGAG

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(2) INFORMATION FOR SEQ ID NO:13:
(i)SEQUENCE CHARACTERISTICS:
 (A)LENGTH: 29 base pairs
 (B)TYPE: nucleic acid
 (C)STRANDEDNESS: single
 (D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:13:
ACAGCAAGCT TTTGACTTTA GCGGAGCAG

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(2)INFORMATION FOR SEQ ID NO:14:
(i)SEQUENCE CHARACTERISTICS:
 (A)LENGTH: 29 base pairs
 (B)TYPE: nucleic acid
 (C)STRANDEDNESS: single
 (D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:14:
GAGTTGGATC CCGATATAAA AGGAAGGAT

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(2)INFORMATION FOR SEQ ID NO:15:
(i)SEQUENCE CHARACTERISTICS:
 (A)LENGTH: 25 base pairs
 (B)TYPE: nucleic acid
 (C)STRANDEDNESS: single
 (D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(XI)SEQUENCE DESCRIPTION: SEQ ID NO:15:
TTTTTAAGCT TCATTATCA AGAGT

25

(2)INFORMATION FOR SEQ ID NO:16:
(i)SEQUENCE CHARACTERISTICS:
 (A)LENGTH: 31 base pairs
 (B)TYPE: nucleic acid
 (C)STRANDEDNESS: single
 (D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:16:
TTTTTGATAT CCCCAATGCT GGGGGTTTTT G

31

(2) INFORMATION FOR SEQ ID NO:17:
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 31 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: synthetic DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
CGTCAAAGCT TAAATGATAT TCGGGGATAA T 31

(2) INFORMATION FOR SEQ ID NO:18:
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 25 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: synthetic DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
AGGGAGGATC CGACATTACT CGTTC 25

(2) INFORMATION FOR SEQ ID NO:19:
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 33 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: synthetic DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
CCGCAAGATC TCGTAAAAAG GGTATCGATA AGC 33

(2) INFORMATION FOR SEQ ID NO:20:
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 27 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: synthetic DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
TTGGGAAGCT TCCGGCAAAT GTGGTTT 27

(2) INFORMATION FOR SEQ ID NO:21:
(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 25 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: synthetic DNA

(xi)SEQUENCE DESCRIPTION: SEQ ID NO:21:
ATAAACTCGA GAGAGACAAG CGGAG 25

(2)INFORMATION FOR SEQ ID NO:22:

(i)SEQUENCE CHARACTERISTICS:

(A)LENGTH: 27 base pairs

(B)TYPE: nucleic acid

(C)STRANDEDNESS: single

(D)TOPOLOGY: linear

(ii)MOLECULE TYPE: synthetic DNA

(xi)SEQUENCE DESCRIPTION: SEQ ID NO:22:

TATTATCGAT GAATTAATAA TTCATAG 27

(2)INFORMATION FOR SEQ ID NO:23:

(i)SEQUENCE CHARACTERISTICS:

(A)LENGTH: 25 base pairs

(B)TYPE: nucleic acid

(C)STRANDEDNESS: single

(D)TOPOLOGY: linear

(ii)MOLECULE TYPE: synthetic DNA

(xi)SEQUENCE DESCRIPTION: SEQ ID NO:23

CTCTGGATCC AGTTACGTAT AATAT 25

(2)INFORMATION FOR SEQ ID NO:24:

(i)SEQUENCE CHARACTERISTICS:

(A)LENGTH: 30 base pairs

(B)TYPE: nucleic acid

(C)STRANDEDNESS: single

(D)TOPOLOGY: linear

(ii)MOLECULE TYPE: synthetic DNA

(xi)SEQUENCE DESCRIPTION: SEQ ID NO:24:

CGGCAAGCTT ATTGTGCCTT TCCAATAAAA 30

(2)INFORMATION FOR SEQ ID NO:25:

(i)SEQUENCE CHARACTERISTICS:

(A)LENGTH: 28 base pairs

(B)TYPE: nucleic acid

(C)STRANDEDNESS: single

(D)TOPOLOGY: linear

(ii)MOLECULE TYPE: synthetic DNA

(xi)SEQUENCE DESCRIPTION: SEQ ID NO:25:

ACTTGGATCC CCGTCAATAA ATCTTGCG 28

(2) INFORMATION FOR SEQ ID NO:26:.

(i)SEQUENCE CHARACTERISTICS:

(A)LENGTH: 30 base pairs

(B)TYPE: nucleic acid

(C)STRANDEDNESS: single

(D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:26:
GGTAAAGCTT ATGCAAAACC ACGTTATCAG

30

(2)INFORMATION FOR SEQ ID NO:27:
(i)SEQUENCE CHARACTERISTICS:
 (A)LENGTH: 29 base pairs
 (B)TYPE: nucleic acid
 (C)STRANDEDNESS: single
 (D)TOPOLOGY: linear
(ii)MOLECULE TYPE: synthetic DNA
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:27:
AAACGGATCC TTATTGGAAA GGCACAATA

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